Amendments to the Specification:

Please replace the paragraph beginning at page 9, line 12, which starts with "The auto-configuration system" with the following amended paragraph:

The auto-configuration system makes use of the user ~~defied~~ defined extended frame message (Id 0x3E). The advantages of this use of the extended frame message are that it leaves the regular LIN identifiers untouched and available, the number of bytes is free and can thus be optimized for each message, and the byte containing the error flag can be located at the end of the frame, after the checksum (to allow for signaling of checksum errors, by the master as well as the slaves).

Please replace the paragraph beginning at page 10, line 2, which starts with "UAD: un-address all" with the following amended paragraph:

UAD: un-address all auto-configuration slaves, the UAD message is a regular message with data sent by the master. When the master initiates the UAD command all auto-configuration slaves reset their node identifier ID to 0 and set their internal position counter to 1. The result is that all ~~salves~~ slaves are now in the unaddressed state and the bus is consequently ready to start the auto configuration process.

Please replace the paragraph beginning at page 11, line 15, which starts with "During the last" with the following amended paragraph:

During the last ~~Byte~~ byte (Data 7) all unaddressed slaves send a dominant bit followed by a recessive bit (the addressed slaves and the selected slave do nothing). The master also sends a ~~0xFFbyte~~ 0xFF byte to initiate the response from the slaves. This is the 'More' flag. It indicates that at least 1 slave is still in the unaddressed state. The remaining 6 bits can be used to signal an error flag (a slave disagreeing with the configuration sequence sends 1 dominant bit followed by 5 recessive bits).